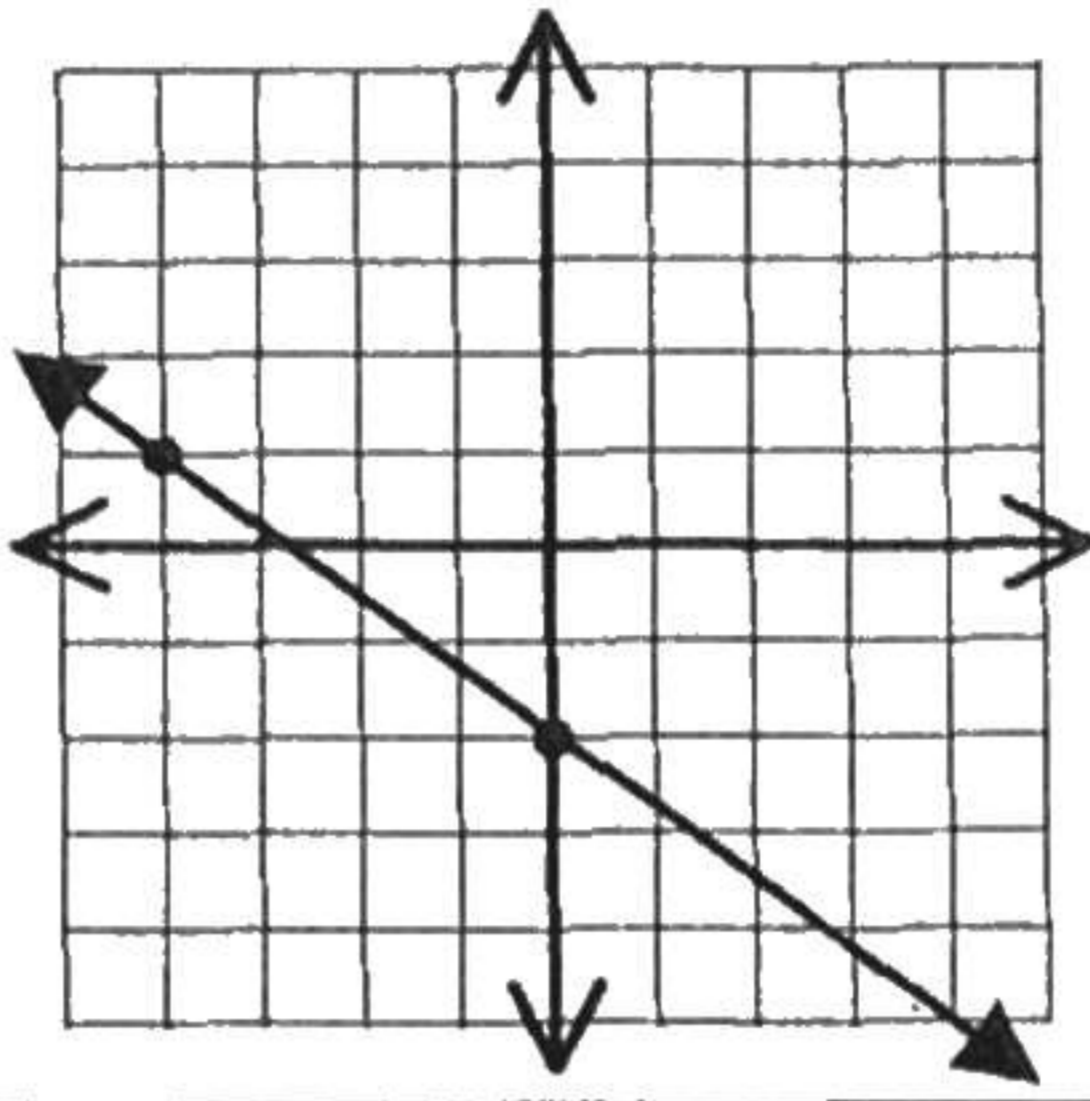
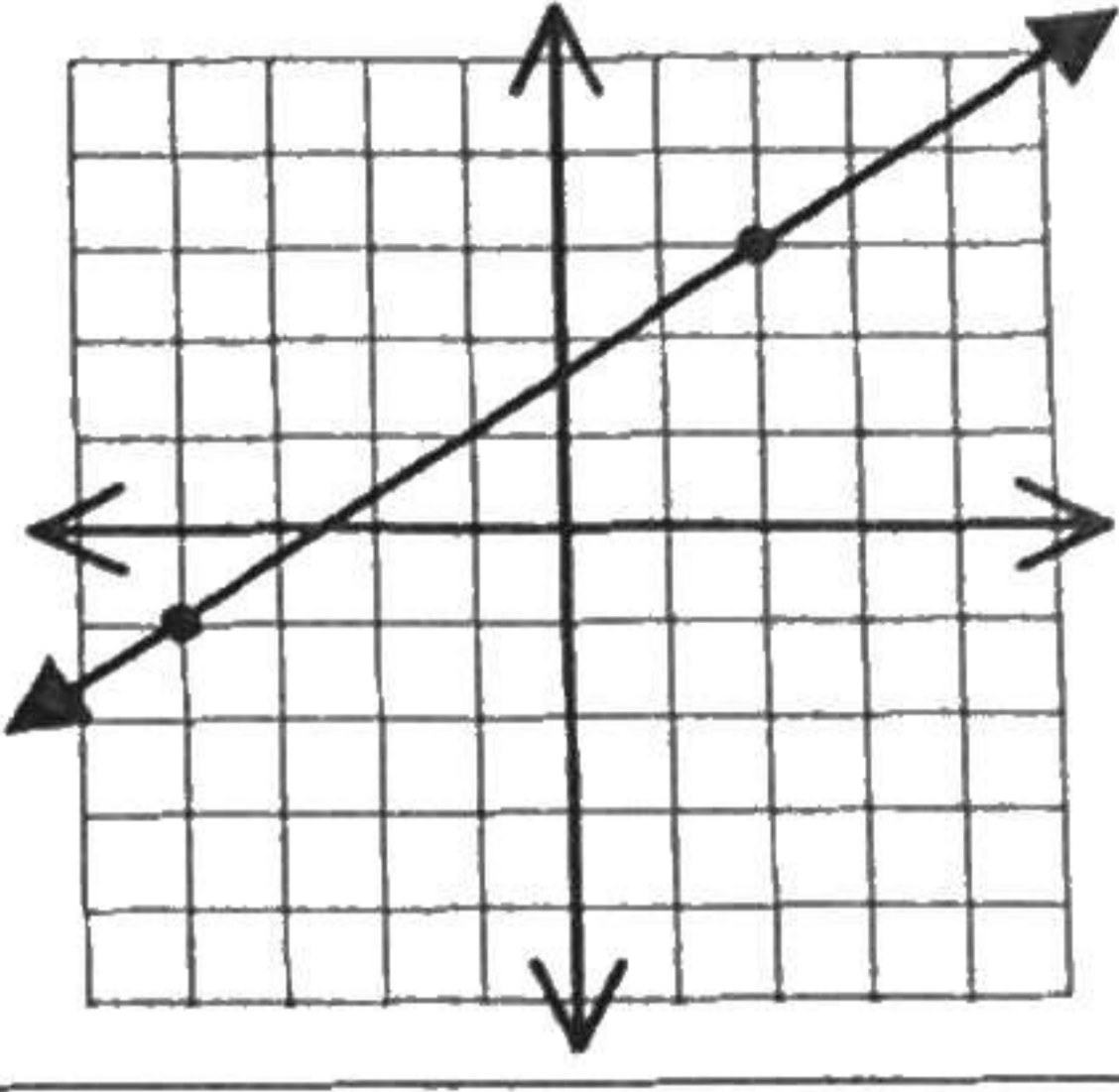
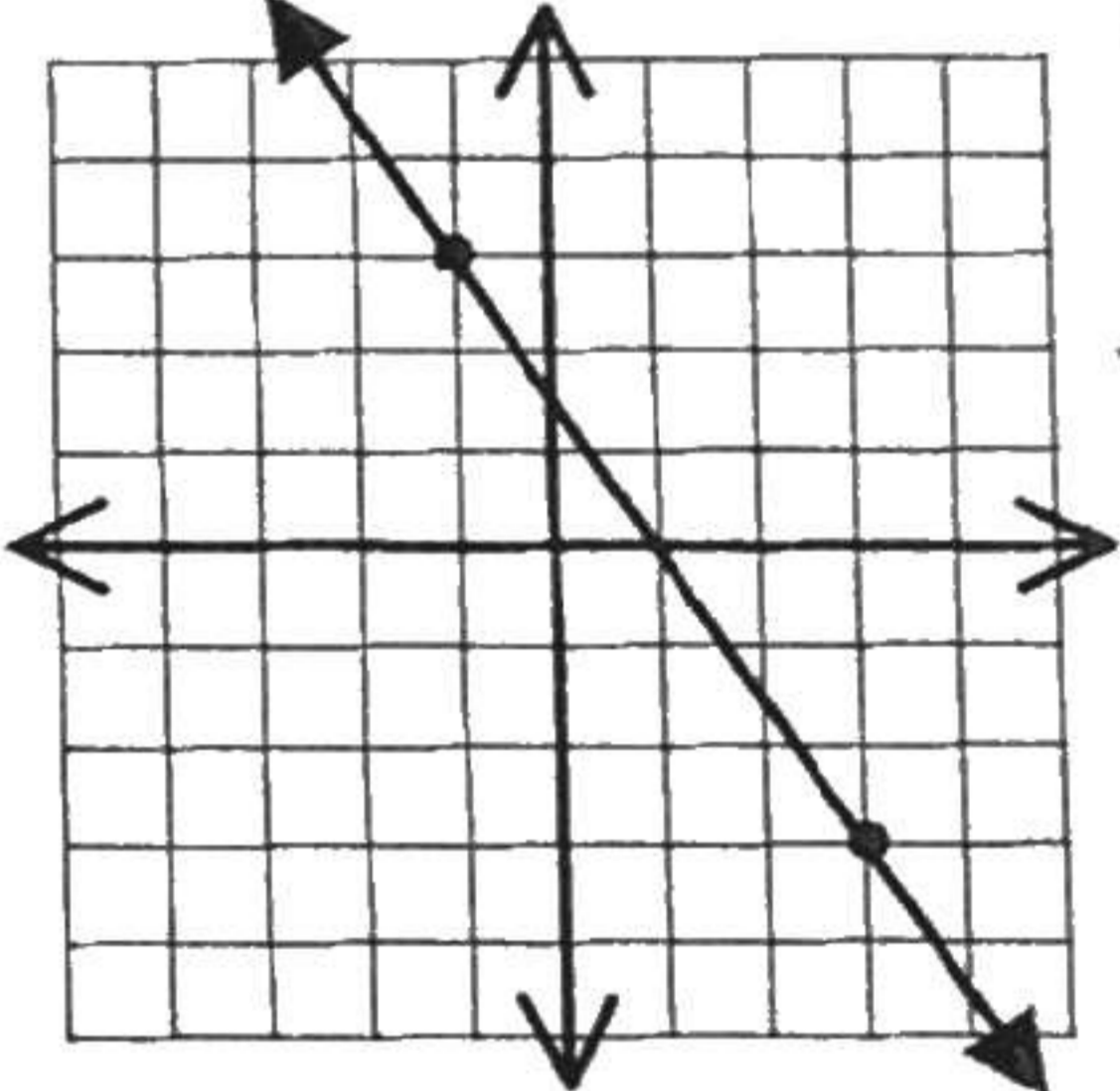


Homework # 202
 Algebra I Pre-AP -- Writing Line Equations
 Work all problems on notebook paper using a pencil

Set A. For #1 - 6, write the equation of each line described in slope-intercept form. ($y = mx + b$)

| | | |
|--|---|---|
| 1) slope $-\frac{3}{5}$, containing (0, -6) | 2) slope = 4, containing (-2, 3) | 3) containing (12, 18) and (15, 12) |
| 4) containing (6, 1) and (-2, 5) | 5) the line graphed below <div style="text-align: center; margin-top: 10px;">  </div> | 6) the line graphed below <div style="text-align: center; margin-top: 10px;">  </div> |

For #7 - 12, write the equation of each line described in Standard Form. ($Ax + By = C$)

| | | |
|-----------------------------------|------------------------------------|--|
| 7) $y = \frac{4}{5}x - 1$ | 8) slope = 3, containing (4, -8) | 9) slope = $-\frac{1}{2}$, containing (10, -3) |
| 10) containing (9, 8) and (3, 10) | 11) containing (5, -1) and (-3, 2) | 12) the line graphed below <div style="text-align: center; margin-top: 10px;">  </div> |

Set B.

Algebra I Pre-AP -- Parallel and Perpendicular Lines

For #1 - 3, state the slope of a line that is a) parallel to and b) perpendicular to the line described.

| | | |
|-------------------|--|--------------------------------|
| 1) $3x + 7y = 21$ | 2) $\frac{2x - 5}{4} = \frac{3y + 7}{3}$ | 3) $4(x - 3y) = 6(x - 2y) - 9$ |
|-------------------|--|--------------------------------|

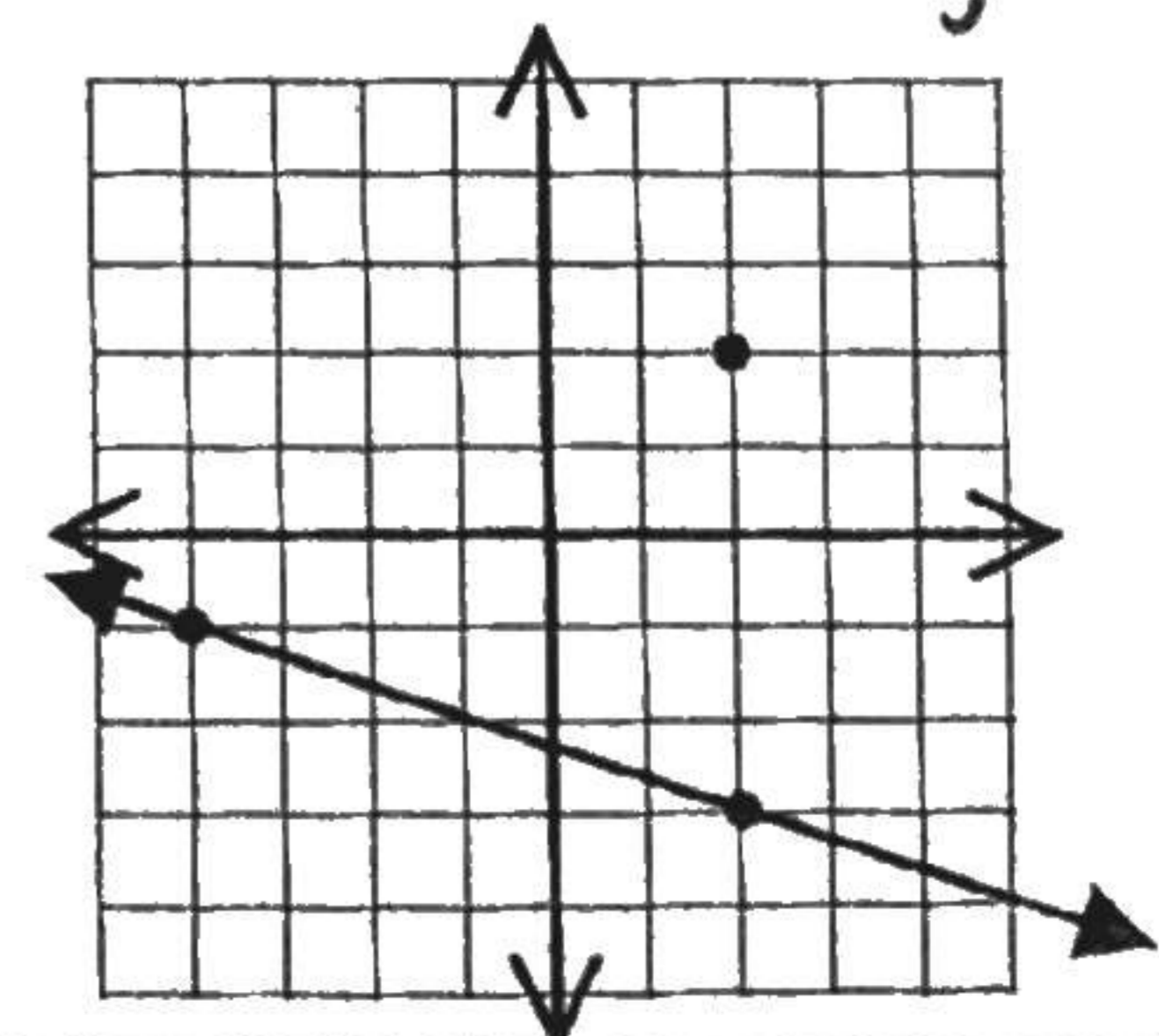
For #4 - 6, use slope-intercept form to write the equation of each line described. ($y = mx + b$)

| | | |
|--|--|---|
| 4) parallel to $y = \frac{5}{3}x - 1$ and containing (6, -8) | 5) Perpendicular to $5x + 2y = -8$ and containing (10, -4) | 6) parallel to $x - y = 10$ and having a y-intercept of -7. |
|--|--|---|

For #7 - 9, use standard form to write the equation of each line described. ($Ax + By = C$)

| | | |
|--|---|---|
| 7) perpendicular to $y = -\frac{2}{5}x - 5$ and containing (4, -3) | 8) parallel to $x - 5y = 18$ and containing (3, -6) | 9) perpendicular to $2x + 3y = 7$ and having a y-intercept of -8. |
|--|---|---|

10) Parallel to the graphed line and containing the given point.



challenge problem.

challenge problem